

Low Pass Filter

50Ω

*DC to 5500

VLF-5500+

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	8W at 25°C
DC Current Input to Output	0.5A max. at 25°C

*Passband rating, derate linearly to 3 W at 100°C ambient
Permanent damage may occur if any of these limits are exceeded.

Features

- Rugged uni-body construction, small size
- 7 sections
- Excellent power handling, 8W
- Temperature stable
- Low cost
- Protected by US Patent 6,943,646

Applications

- Harmonic rejection
- Transmitters/receivers
- Lab use



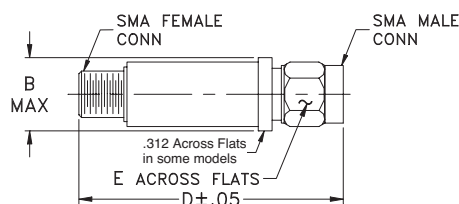
CASE STYLE: FF704

Connectors	Model	Price	Qty.
SMA	VLF-5500+	\$ 21.95 ea.	(1-9)

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Outline Drawing

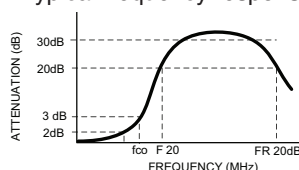


Low Pass Filter Electrical Specifications (T_{AMB} = 25°C)

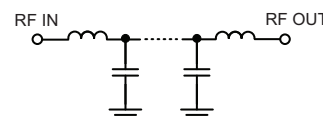
PASSBAND (MHz) (loss < 2 dB) Max.	fco, MHz Nom. (loss 3 dB) Typ.	STOP BAND (MHz) (loss, dB)			VSWR (:1)		NO. OF SECTIONS
		F 20 Min.	30 Typ.	FR 20 Typ.	Stopband Typ.	Passband Typ.	
*DC - 5500	6200	7200	6770 - 9500	12100	17	1.3	7

* Not for use with DC voltage at input and output ports

Typical frequency response



Electrical schematic



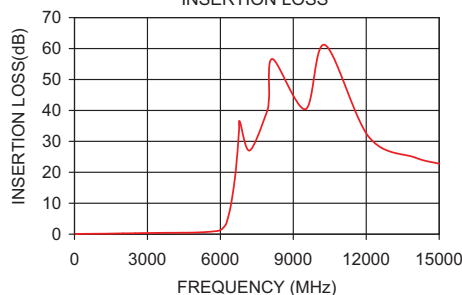
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
40	0.04	1.04
500	0.12	1.04
1500	0.20	1.14
3000	0.39	1.33
4800	0.51	1.13
5500	0.81	1.37
6200	2.80	1.99
6300	4.85	3.30
6400	8.25	5.72
6550	15.66	10.96
6700	26.89	15.96
6770	34.76	17.75
7200	26.40	24.48
9500	40.75	37.77
10500	51.98	48.26
12100	32.16	64.35
15000	25.07	37.77

Outline Dimensions (inch mm)

B	D	E	wt.
.410	1.43	.312	grams
10.41	36.32	7.92	10

VLF-5500+
INSERTION LOSS



VLF-5500+
VSWR

